

(FILE 'HOME' ENTERED AT 12:04:16 ON 25 MAR 2004)

FILE 'REGISTRY' ENTERED AT 12:04:25 ON 25 MAR 2004

L1                   STRUCTURE UPLOADED

L2                   4 S L1

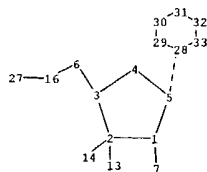
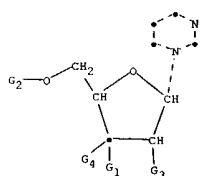
L3                   4 S L1 SSS SAM

L4                   74 S L1 SSS FULL

FILE 'CAPLUS, MEDLINE, USPATFULL' ENTERED AT 12:07:55 ON 25 MAR 2004

L5                   89 S L4

L6                   8 S L5 AND (HEPATITIS C OR HCV)



ain nodes :  
 6 7 8 9 10 13 14 16 17 18 19 20 21 22 23 27  
 ng nodes :  
 1 2 3 4 5 28 29 30 31 32 33  
 ain bonds :  
 1-7 2-13 2-14 3-6 5-28 6-16 8-9 9-10 16-27 17-18 17-19 17-20 21-22 21-23  
 ng bonds :  
 1-2 1-5 2-3 3-4 4-5 28-33 28-29 29-30 30-31 31-32 32-33  
 act/norm bonds :  
 1-2 1-5 1-7 2-3 2-13 2-14 3-4 4-5 5-28 8-9 9-10 16-27 17-18 17-19 17-20  
 21-22 21-23 28-33 28-29 29-30 30-31 31-32 32-33  
 act bonds :  
 3-6 6-16

:F, [\*1]

:H, [\*2], [\*3]

:OH, MeO, EtO, n-PrO, i-PrO, n-BuO, i-BuO, s-BuO, t-BuO, PhO

:G1, H

atch level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:CLASS  
 14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom  
 27:CLASS 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom

eneric attributes :

23:  
 Number of Carbon Atoms : less than 7

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 36791-04-5 REGISTRY  
CN 1H-1,2,4-Triazole-3-carboxamide, 1-β-D-ribofuranosyl- (9CI) (CA  
INDEX NAME)

OTHER NAMES:

CN 1-β-D-Ribofuranosyl-1,2,4-triazol-3-carboxyamide  
CN 1-β-D-Ribofuranosyl-1,2,4-triazole-3-carboxamide

CN ICN 1229  
CN NSC 163039

CN Ravanex  
CN Rebetol

CN Ribamide  
CN Ribamidil

CN Ribavarin  
CN **Ribavirin**

CN Tribavirin  
CN Vilona

CN Viramid  
CN Virazole

FS STEREOSEARCH

DR 66510-90-5, 437710-49-1

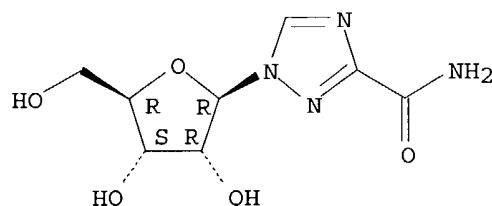
MF C8 H12 N4 O5

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CIN, CSChem, CSNB, DDFU, DIOGENES, DRUGU,  
EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDb, IMSCoSEARCH, IMSDRUGNEWS,  
IMSPATENTS, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR,  
PIRA, PROMT, RTECS\*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)

Other Sources: WHO

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1837 REFERENCES IN FILE CA (1907 TO DATE)

67 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1844 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:695725 CAPLUS

DOCUMENT NUMBER: 137:210908

TITLE: Nucleotides, preparation thereof, and use as inhibitors of RNA viral polymerases

INVENTOR(S): Montgomery, John A.; Babu, Yarlagadda S.; Rowland, R. Scott; Chand, Pooran

PATENT ASSIGNEE(S): Biocryst Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002069903	A2	20020912	WO 2002-US6551	20020306
WO 2002069903	A3	20030227		

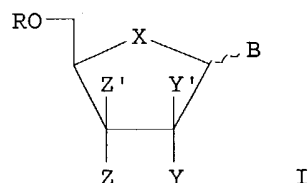
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-273342P P 20010306  
US 2001-285698P P 20010424  
US 2001-331323P P 20011114

OTHER SOURCE(S): MARPAT 137:210908

GI



AB Antiviral nucleotides I were prepared as inhibitors of RNA viral polymerases (no data), wherein X is selected from the group consisting of: O, S, N-R<sub>1</sub>, and CHR<sub>1</sub>; Y and Y' is individually selected from H, OR<sub>1</sub>, NR<sub>1</sub>R<sub>2</sub>, and N<sub>3</sub>; Z and Z' is individually selected from H, OR<sub>1</sub>, and NR<sub>1</sub>R<sub>2</sub>; R = H, monophosphate PO<sub>3</sub>R<sub>32</sub>, diphosphate P<sub>2</sub>O<sub>6</sub>R<sub>33</sub>, triphosphate P<sub>3</sub>O<sub>9</sub>R<sub>34</sub>; R<sub>1</sub> and R<sub>2</sub> is selected from H, alkyl, acyl, aryl which may be substituted or unsubstituted; R<sub>3</sub> is selected from H, alkyl, alkenyl, alkynyl, aryl, acyloxyalkyl, and pivaloyloxyalkyl; B is selected from 5 or 6-substituted uracil or cytosine, pseudouracil, N-substituted pseudouracil, 2-thiouracil, 2-thiocytosine, 5- or 6-substituted 2-thiouracil and 2-thiocytosine, 6-azauracil, 5-azacytosine, 8-azapurines, and 7-aza-8-deazapurines. Substitutions may be halo-substituted alkyl, halo-substituted alkenyl, halo-substituted alkynyl, halo-substituted aryl, alkylthio, or NR<sub>1</sub>R<sub>2</sub>. When Z and Z' are H and Y or Y' is OH then B is not 5-Me uracil or cytosine; and pharmaceutically acceptable salts thereof, mono, di or triphosphate and prodrugs thereof. Thus, 1-(3'-deoxy-β-D-ribofuranosyl)-2-thiocytosine was prepared as inhibitors of RNA viral polymerases (no data).

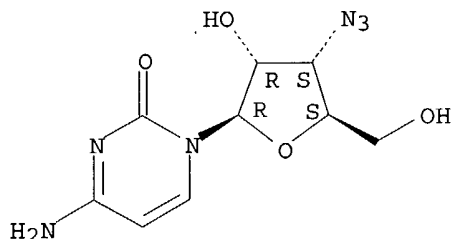
IT 70580-87-9P 70580-88-0P

RL: BSU (Biological study, unclassified); PNU (Preparation, unclassified);  
BIOL (Biological study); PREP (Preparation)  
(Nucleotides, preparation thereof, and use as inhibitors of RNA viral  
polymerases)

RN 70580-87-9 CAPLUS

CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

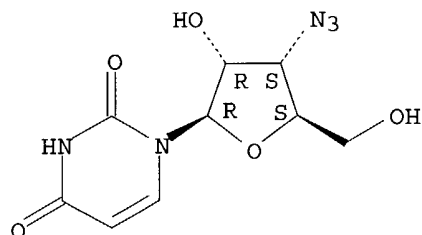
Absolute stereochemistry.



RN 70580-88-0 CAPLUS

CN Uridine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:555629 CAPLUS

DOCUMENT NUMBER: 137:125359

TITLE: Preparation of nucleoside derivatives as inhibitors of  
RNA-dependent RNA viral polymerase

INVENTOR(S): Carroll, Steven S.; Lafemina, Robert L.; Hall, Dawn  
L.; Himmelberger, Amy L.; Kuo, Lawrence C.; Maccoss,  
Malcolm; Olsen, David B.; Rutkowski, Carrie A.;  
Tomassini, Joanne E.; An, Haoyun; Bhat, Balkrishen;  
Bhat, Neelima; Cook, Phillip Dan; Eldrup, Anne B.;  
Guinosso, Charles J.; Prhavc, Marija; Prakash, Thazha  
P.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Isis Pharmaceuticals, Inc.

SOURCE: PCT Int. Appl., 235 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

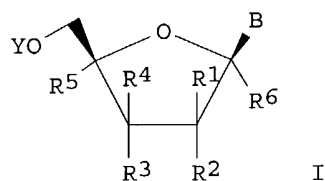
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002057425	A2	20020725	WO 2002-US1531	20020118
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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,				

LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,  
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,  
 UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002147160 A1 20021010 US 2002-52318 20020118  
 PRIORITY APPLN. INFO.: US 2001-263313P P 20010122  
 US 2001-282069P P 20010406  
 US 2001-299320P P 20010619  
 US 2001-344528P P 20011025

OTHER SOURCE(S): MARPAT 137:125359  
 GI



AB The present invention provides the preparation of nucleoside compds. I, wherein B is nucleobase, Y is H, alkylcarbonyl, phosphate; R1 is H, alkenyl, alkynyl, alkyl; R2 and R3 are independently H, OH, halogen, alkyl, alkoxy, alkenyloxy, alkylthio, alkylcarbonyloxy, aryloxycrbonyl, azido, amino, alkylamino; R1 and R2 together with the carbon atom to which they are attached form a 3- to 6-membered heterocycle; R4 is H, OH, SH, NH2, alkylamino, cycloalkylamino, halogen, alkyl, alkoxy, CF3; R5 and R6 are independently H, hydroxymethyl, Me, fluoromethyl; and certain derivs. thereof which are inhibitors of RNA-dependent RNA viral polymerase. These compds. are inhibitors of RNA-dependent RNA viral replication and are useful for the treatment of RNA-dependent RNA viral infection. They are particularly useful as inhibitors of **hepatitis C virus (HCV)** NS5B polymerase, as inhibitors of **HCV** replication, and/or for the treatment of **hepatitis C** infection. The invention also describes pharmaceutical compns. containing such nucleoside compds. alone or in combination with other agents active against RNA-dependent RNA viral infection, in particular **HCV** infection. Also disclosed are methods of inhibiting RNA-dependent RNA polymerase, inhibiting RNA-dependent RNA viral replication, and/or treating RNA-dependent RNA viral infection with the nucleoside compds. of the present invention. Thus, 4-amino-1-(2-C-methyl- $\beta$ -D-ribofuranosyl)-1H-pyrazolo[3,4-d]pyrimidine was prepared as inhibitors of RNA-dependent RNA viral polymerase. Representative compds. tested in the **HCV** NS5B polymerase assay exhibited IC's less than 100  $\mu$ M. The compds. of the present invention were also evaluated for their ability to affect the replication of **Hepatitis C Virus** RNA in cultured hepatoma (HuH-7) cells containing a sub-genomic **HCV** Replicon.

IT **123402-24-4P 123402-25-5P**

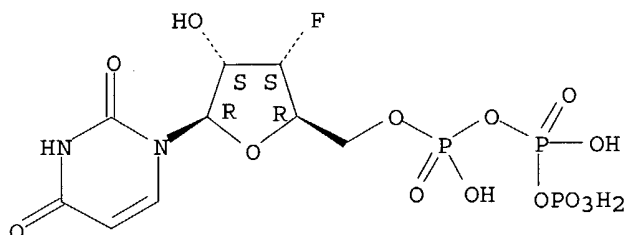
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nucleoside derivs. as inhibitors of RNA-dependent human RNA viral polymerase)

RN 123402-24-4 CAPLUS

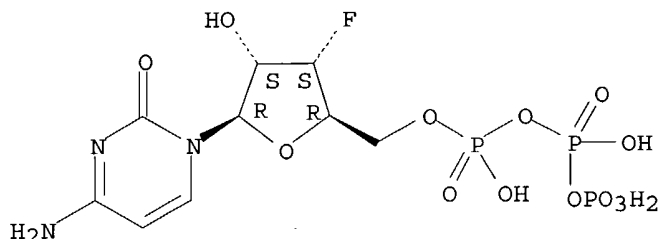
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 123402-25-5 CAPLUS  
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA  
INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2002:504634 CAPLUS  
DOCUMENT NUMBER: 137:57536  
TITLE: Remedies for **hepatitis C**  
INVENTOR(S): Morioka, Masahiko; Ubasawa, Masaru; Arai, Masaaki  
PATENT ASSIGNEE(S): Mitsubishi Pharma Corporation, Japan  
SOURCE: PCT Int. Appl., 38 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051425	A1	20020704	WO 2001-JP11365	20011225
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1346724	A1	20030924	EP 2001-271879	20011225
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRIORITY APPLN. INFO.:			JP 2000-394620	A 20001226
			JP 2001-23542	A 20010131
			JP 2001-105585	A 20010404

OTHER SOURCE(S): MARPAT 137:57536

AB Excellent remedies for **hepatitis C** which contain as the active ingredients a 3'-deoxy-3'-fluorouridine derivative and a 1-(3'-deoxy-3'-fluoro- $\beta$ -L-ribofuranosyl)uracil derivative and show little side effects.

IT 57944-13-5DP, 3'-Deoxy-3'-fluorouridine, derivs.

112668-56-1P 123402-24-4P 125217-37-0P

439579-20-1P 439579-21-2P 439579-22-3P

439579-24-5P 439579-25-6P 439579-26-7P

439579-28-9P 439579-32-5P 439579-34-7P

439579-36-9P 439579-37-0P 439579-38-1P

439579-40-5P 439579-41-6P 439579-42-7P

439579-43-8P

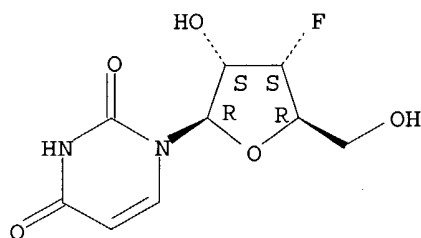
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(deoxy-3'-fluorouridine derivative and a 1-(3'-deoxy-3'-fluoro--L-ribofuranosyl)uracil derivative as remedies for **hepatitis C**)

RN 57944-13-5 CAPLUS

CN Uridine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

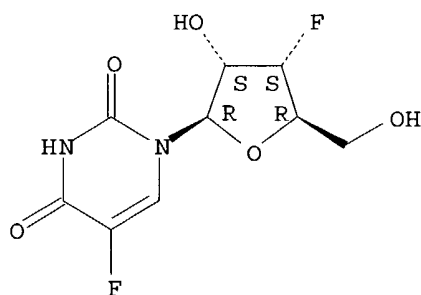
Absolute stereochemistry.



RN 112668-56-1 CAPLUS

CN Uridine, 3'-deoxy-3',5-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

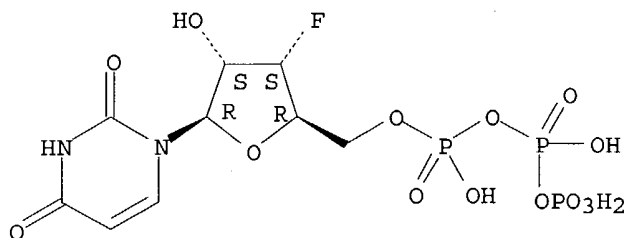


RN 123402-24-4 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

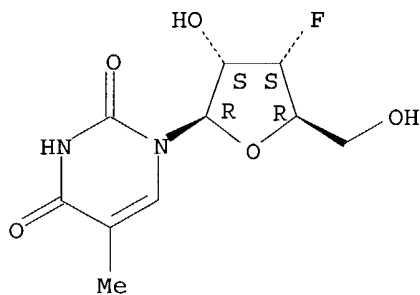




RN 125217-37-0 CAPLUS

CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

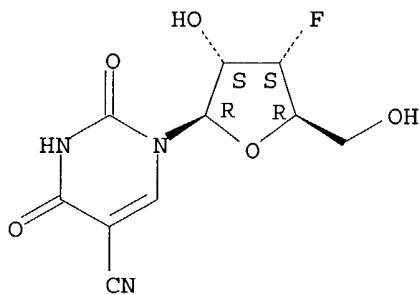
Absolute stereochemistry.



RN 439579-20-1 CAPLUS

CN Uridine, 5-cyano-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

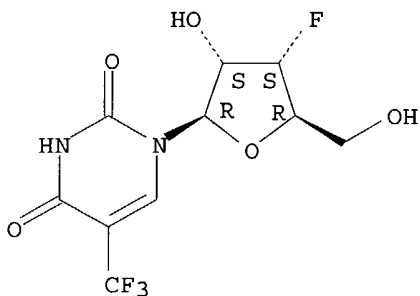
Absolute stereochemistry.



RN 439579-21-2 CAPLUS

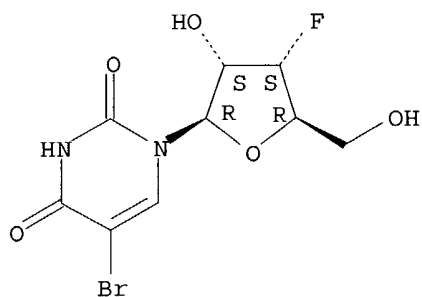
CN Uridine, 3'-deoxy-3'-fluoro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



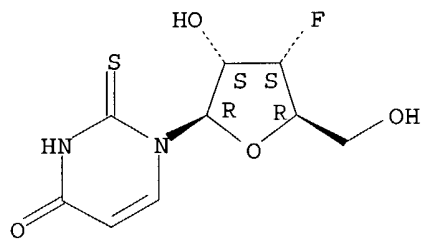
RN 439579-22-3 CAPLUS  
CN Uridine, 5-bromo-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



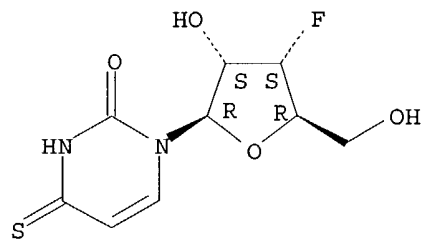
RN 439579-24-5 CAPLUS  
CN Uridine, 3'-deoxy-3'-fluoro-2-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



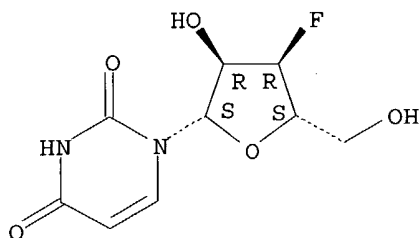
RN 439579-25-6 CAPLUS  
CN Uridine, 3'-deoxy-3'-fluoro-4-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



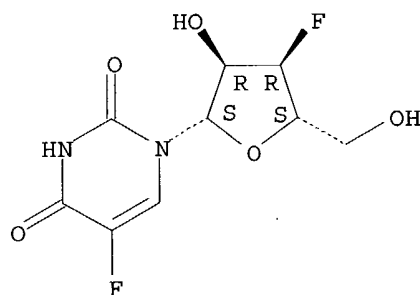
RN 439579-26-7 CAPLUS  
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-β-L-ribofuranosyl)-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



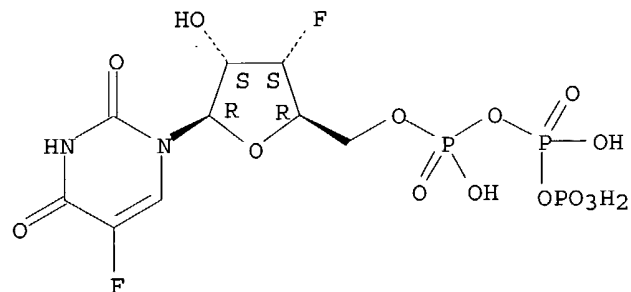
RN 439579-28-9 CAPLUS  
 CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro- $\beta$ -L-ribofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



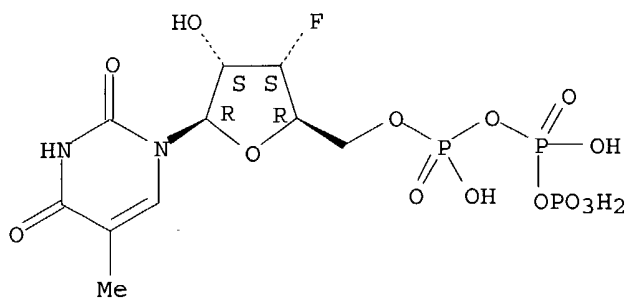
RN 439579-32-5 CAPLUS  
 CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3',5-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 439579-34-7 CAPLUS  
 CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

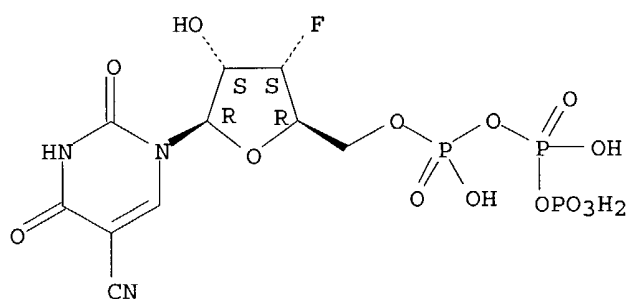
Absolute stereochemistry.



RN 439579-36-9 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), 5-cyano-3'-deoxy-3'-fluoro- (9CI)  
(CA INDEX NAME)

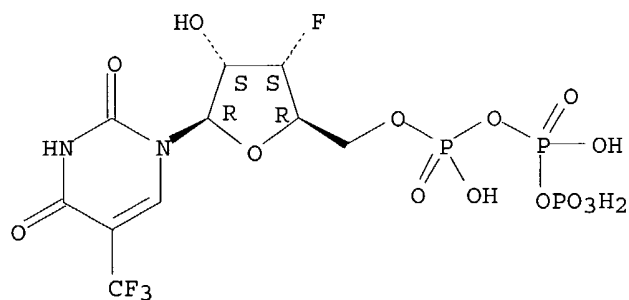
Absolute stereochemistry.



RN 439579-37-0 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

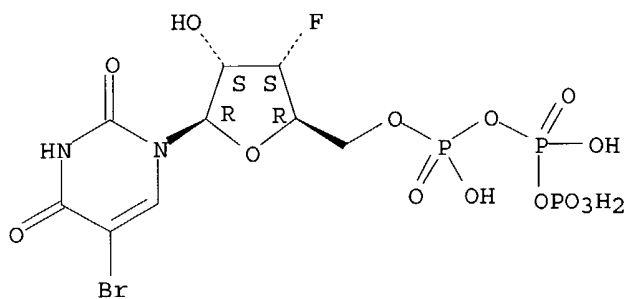
Absolute stereochemistry.



RN 439579-38-1 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), 5-bromo-3'-deoxy-3'-fluoro- (9CI)  
(CA INDEX NAME)

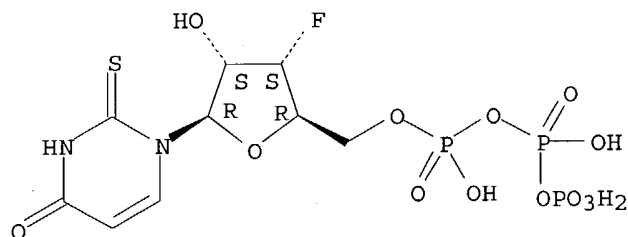
Absolute stereochemistry.



RN 439579-40-5 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-2-thio- (9CI)  
(CA INDEX NAME)

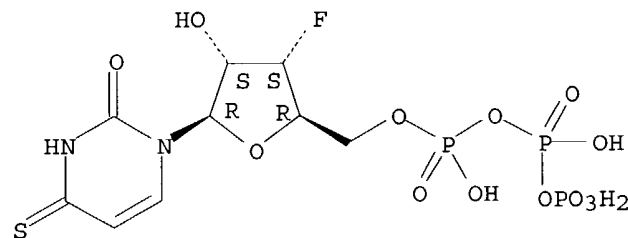
Absolute stereochemistry.



RN 439579-41-6 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-4-thio- (9CI)  
(CA INDEX NAME)

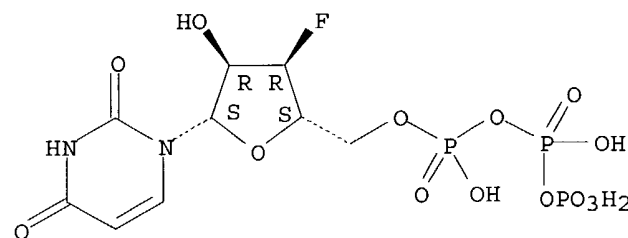
Absolute stereochemistry.



RN 439579-42-7 CAPLUS

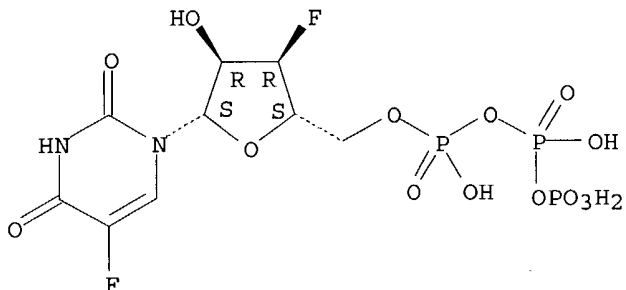
CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-deoxy-3-fluoro-5-O-  
[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-L-  
ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 439579-43-8 CAPLUS  
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-deoxy-3-fluoro-5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-β-L-ribofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:314958 CAPLUS

DOCUMENT NUMBER: 136:340939

TITLE: Preparation of modified nucleosides for treatment of viral infections and abnormal cellular proliferation

INVENTOR(S): Stuyver, Lieven; Watanabe, Kyoichi A.

PATENT ASSIGNEE(S): Pharmasset Limited, USA

SOURCE: PCT Int. Appl., 230 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

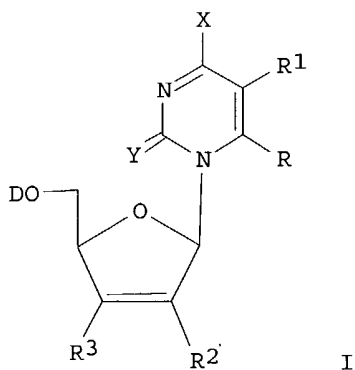
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032920	A2	20020425	WO 2001-US46113	20011018
WO 2002032920	A3	20040219		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002028749	A5	20020429	AU 2002-28749	20011018
US 2003087873	A1	20030508	US 2001-45292	20011018
PRIORITY APPLN. INFO.:			US 2000-241488P	P 20001018
			US 2001-282156P	P 20010406
			WO 2001-US46113	W 20011018

OTHER SOURCE(S): MARPAT 136:340939

GI



AB Modified nucleosides, e.g. I, wherein D is hydrogen, alkyl, acyl, monophosphate, diphosphate, triphosphate, monophosphate ester, diphosphate ester, triphosphate ester, phospholipid or amino acid; X is H, halogen, NH<sub>2</sub>, substituted amine, oxime, OH, alkoxy, SH, thioalkyl; Y is O, S, Se; R and R<sub>1</sub> are independently H, alkyl, alkenyl, alkynyl, aryl, alkylaryl, halogen, NH<sub>2</sub>, substituted amine, oxime, hydrazine, OH, alkoxy, SH, thioalkyl, NO<sub>2</sub>, NO, CH<sub>2</sub>OH, CH<sub>2</sub>OH, ester, CONH<sub>2</sub>, amide, CN; R<sub>2</sub> and R<sub>3</sub> are independently H, halogen, OH, SH, OMe, SMe, NH<sub>2</sub>, NHMe, CH:CH<sub>2</sub>, CN, CH<sub>2</sub>NH<sub>2</sub>, CH<sub>2</sub>OH, CO<sub>2</sub>H; were prepared for treating a Flaviviridae (including BVDV and HCV), Orthomyxoviridae (including Influenza A and B) or Paramyxoviridae (including RSV) infection, or conditions related to abnormal cellular proliferation, in a host, including animals, and especially humans. This invention also provides an effective process to quantify the viral load, and in particular BVDV, HCV or West Nile Virus load, in a host, using real-time polymerase chain reaction ("TR-PCR"). Addnl., the invention discloses probe mols. that can fluoresce proportionally to the amount of virus present in a sample. Thus, (1'R,2'S,3'R,4'R)-1-[2,3-dihydroxy-4-(hydroxymethyl)cyclopentan-1-yl]-5-fluorocytosine was prepared and tested in vitro as antiviral and antitumor agent.

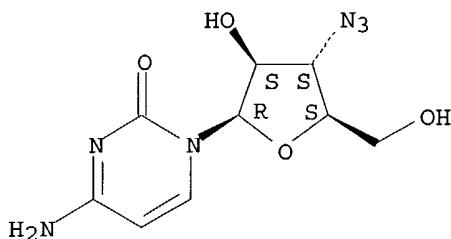
IT 60786-48-3P 415704-55-1P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of modified nucleosides for treatment of viral infections and abnormal cellular proliferation)

RN 60786-48-3 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3-azido-3-deoxy-β-D-arabinofuranosyl)-(9CI) (CA INDEX NAME)

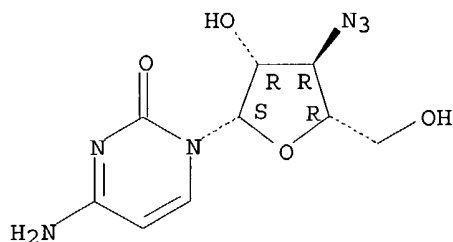
Absolute stereochemistry.



RN 415704-55-1 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3-azido-3-deoxy-β-L-arabinofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:171918 CAPLUS

DOCUMENT NUMBER: 136:217007

TITLE: Preparation of antiviral nucleoside derivatives as inhibitors of subgenomic hepatitis C virus RNA replication

INVENTOR(S): Devos, Rene; Dymock, Brian William; Hobbs, Christopher John; Jiang, Wen-rong; Martin, Joseph Armstrong; Merrett, John Herbert; Najera, Isabel; Shimma, Nobuo; Tsukuda, Takuo

PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.

SOURCE: PCT Int. Appl., 225 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

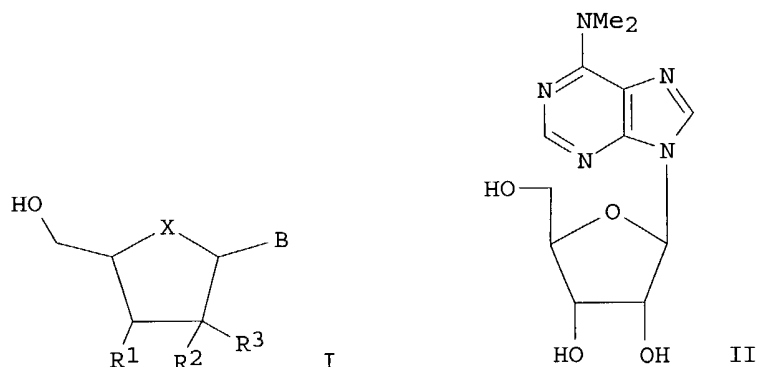
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018404	A2	20020307	WO 2001-EP9633	20010821
WO 2002018404	C2	20031002		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003008841	A1	20030109	US 2001-923620	20010807
AU 2001095497	A5	20020313	AU 2001-95497	20010821
EP 1315736	A2	20030604	EP 2001-976128	20010821
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001013611	A	20030624	BR 2001-13611	20010821
PRIORITY APPLN. INFO.:				
			GB 2000-21285	A 20000830
			GB 2000-26611	A 20001031
			WO 2001-EP9633	W 20010821

OTHER SOURCE(S): MARPAT 136:217007

GI





AB Nucleosides I , wherein R1 is hydrogen, hydroxy, alkyl, hydroxyalkyl, alkoxy, halogen, cyano, isocyano or azido; R2 is hydrogen, hydroxy, alkoxy, chlorine, bromine or iodine; R3 is hydrogen; or R2 and R3 together represent =CH2; or R2 and R3 represent fluorine; X is O, S or CH2; B is a substituted purine base, were prepared as inhibitors of subgenomic **hepatitis C virus (HCV)** RNA replication.

Thus, nucleoside II was prepared and tested for the inhibition of **HCV** RNA replication (EC50 = 0.6  $\mu$ M).

IT **26563-01-9P 125217-37-0P 129885-95-6P**

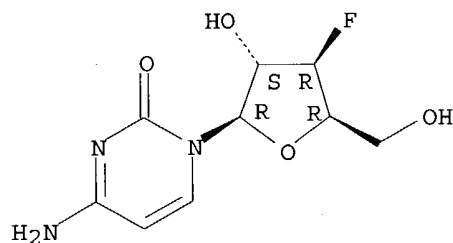
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of antiviral nucleoside derivs. as inhibitors of subgenomic **hepatitis C virus** RNA replication)

RN 26563-01-9 CAPLUS

CN 2 (1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro- $\beta$ -D-xylofuranosyl)-(9CI) (CA INDEX NAME)

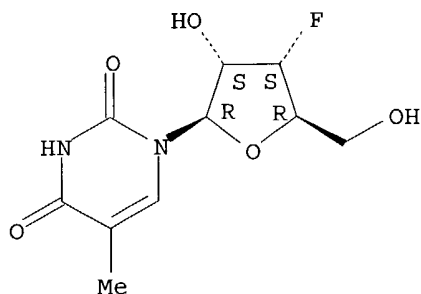
Absolute stereochemistry.



RN 125217-37-0 CAPLUS

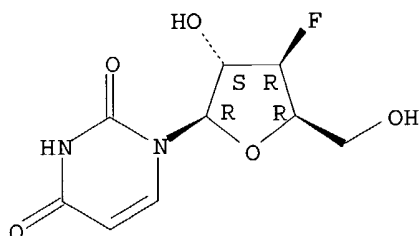
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 129885-95-6 CAPLUS  
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-β-D-xylofuranosyl)-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 2001:617773 CAPLUS  
DOCUMENT NUMBER: 135:175346  
TITLE: Method for the treatment or prevention of flavivirus  
infections using nucleoside analogues  
INVENTOR(S): Ismaili, Hicham Moulay Alaoui; Cheng, Yun-Xing;  
Lavallee, Jean-Francois; Siddiqui, Arshad; Storer,  
Richard  
PATENT ASSIGNEE(S): Biochem Pharma Inc., Can.  
SOURCE: PCT Int. Appl., 51 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001060315	A2	20010823	WO 2001-CA197	20010219
WO 2001060315	A3	20030116		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001035278	A5	20010827	AU 2001-35278	20010219
EP 1296690	A2	20030402	EP 2001-907276	20010219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003523978	T2	20030812	JP 2001-559414	20010219
US 2002019363	A1	20020214	US 2001-785235	20010220
NO 2002003884	A	20021017	NO 2002-3884	20020816
PRIORITY APPLN. INFO.:			US 2000-183349P P	20000218
			WO 2001-CA197 W	20010219
OTHER SOURCE(S): MARPAT 135:175346				
AB The present invention relates to a method for the treatment or prevention of Flavivirus infections using nucleoside analogs in a host comprising administering a therapeutically effective amount of the nucleoside analog or a pharmaceutically acceptable salt thereof.				
IT 70580-87-9 85708-20-9 123402-20-0 123402-25-5 RL: BAC (Biological activity or effector, except adverse); BSU (Biological				

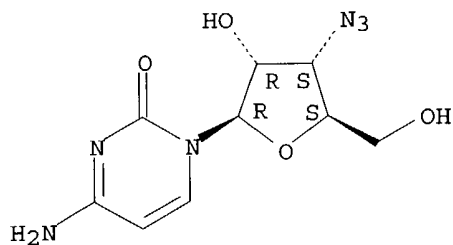
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(method for treatment or prevention of flavivirus infections using nucleoside analogs and their combination with other agents in relation to **hepatitis C** virus RNA-dependent RNA polymerase (NS5B protein))

RN 70580-87-9 CAPLUS

CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

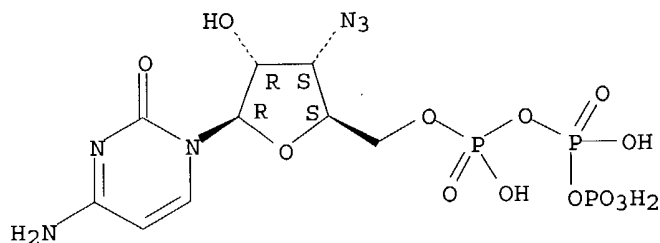
Absolute stereochemistry.



RN 85708-20-9 CAPLUS

CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

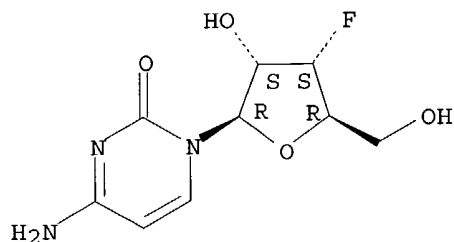
Absolute stereochemistry.



RN 123402-20-0 CAPLUS

CN Cytidine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

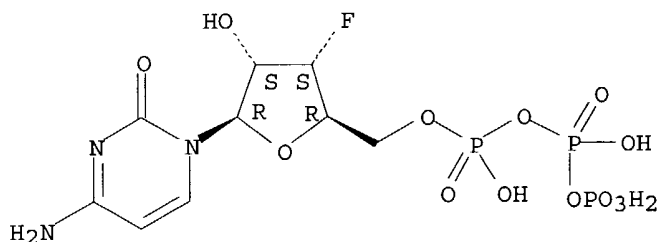
Absolute stereochemistry.



RN 123402-25-5 CAPLUS

CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 7 OF 8 USPATFULL on STN

ACCESSION NUMBER: 2003:11137 USPATFULL

TITLE: Anti-**HCV** nucleoside derivatives

INVENTOR(S): Devos, Rene, Welwyn Garden City, UNITED KINGDOM  
 Dymock, Brian William, St. Albans, UNITED KINGDOM  
 Hobbs, Christopher John, Hertford, UNITED KINGDOM  
 Jiang, Wen-Rong, Welwyn Garden City, UNITED KINGDOM  
 Martin, Joseph Armstrong, Harpenden, UNITED KINGDOM  
 Merrett, John Herbert, Baldock, UNITED KINGDOM  
 Najera, Isabel, St. Albans, UNITED KINGDOM  
 Shimma, Nobuo, Chigasaki-shi, JAPAN  
 Tsukuda, Takuo, Odawara-shi, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003008841	A1	20030109
APPLICATION INFO.:	US 2001-923620	A1	20010807 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2000-21285	20000830
	GB 2000-26611	20001031
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110	
NUMBER OF CLAIMS:	49	
EXEMPLARY CLAIM:	1	
LINE COUNT:	4872	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention comprises novel and known purine and pyrimidine nucleoside derivatives which have been discovered to be active against **hepatitis C virus (HCV)**. The use of these derivatives for the treatment of **HCV** infection is claimed as are the novel nucleoside derivatives disclosed herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

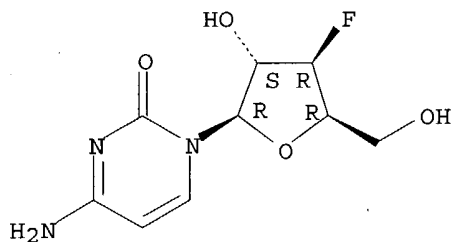
IT 26563-01-9P 125217-37-0P 129885-95-6P

(preparation of antiviral nucleoside derivs. as inhibitors of subgenomic hepatitis C virus RNA replication)

RN 26563-01-9 USPATFULL

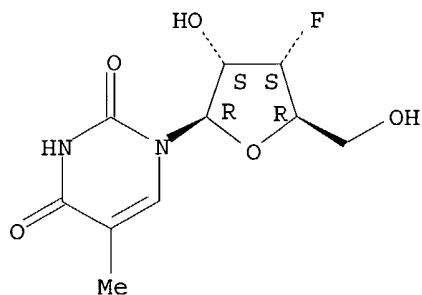
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-β-D-xylofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



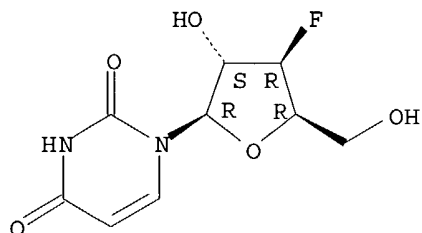
RN 125217-37-0 USPATFULL  
 CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 129885-95-6 USPATFULL  
 CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-β-D-xylofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 8 OF 8 USPATFULL on STN  
 ACCESSION NUMBER: 2002:32541 USPATFULL  
 TITLE: Method for the treatment or prevention of flavivirus infections using nucleoside analogues  
 INVENTOR(S): Ismaili, Hicham Moulay Alaoui, Montreal, CANADA  
 Cheng, Yun-Xing, Dollard-des-Ormeaux, CANADA  
 Lavallee, Jean-Francois, Bellefeuille, CANADA  
 Siddiqui, Arshad, Dollard-des-Ormeaux, CANADA  
 Storer, Richard, Baie d'Urfe, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002019363	A1	20020214
APPLICATION INFO.:	US 2001-785235	A1	20010220 (9)

NUMBER	DATE
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PRIORITY INFORMATION: US 2000-183349P 20000218 (60)  
DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: MILLEN, WHITE, ZELANO & BRANIGAN, PC, 2200 CLARENDON  
BLVD, SUITE 1400, ARLINGTON, VA, 22201

NUMBER OF CLAIMS: 18  
EXEMPLARY CLAIM: 1  
LINE COUNT: 1165

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a method for the treatment or prevention of Flavivirus infections using nucleoside analogues in a host comprising administering a therapeutically effective amount of a compound having the formula I or a pharmaceutically acceptable salt thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

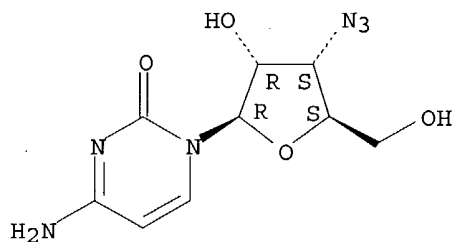
IT 70580-87-9 85708-20-9 123402-20-0  
123402-25-5

(method for treatment or prevention of flavivirus infections using nucleoside analogs and their combination with other agents in relation to hepatitis C virus RNA-dependent RNA polymerase (NS5B protein))

RN 70580-87-9 USPATFULL

CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

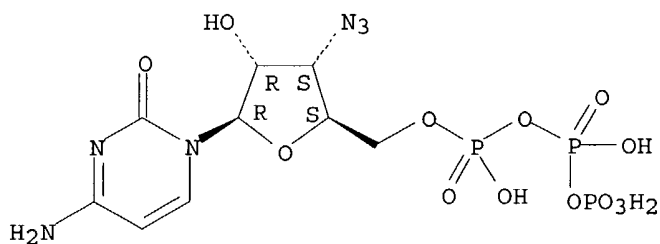
Absolute stereochemistry.



RN 85708-20-9 USPATFULL

CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

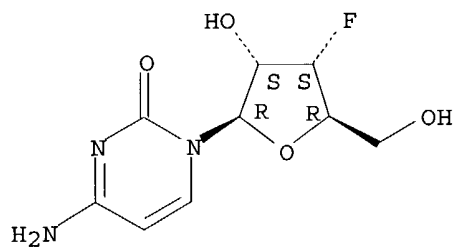
Absolute stereochemistry.



RN 123402-20-0 USPATFULL

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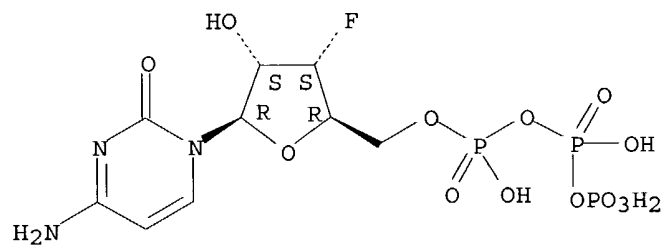
Absolute stereochemistry.



RN 123402-25-5 USPATFULL

CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA  
INDEX NAME)

Absolute stereochemistry.



=>

FILE 'REGISTRY' ENTERED AT 11:09:10 ON 25 MAR 2004  
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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 24 MAR 2004 HIGHEST RN 667234-34-6  
DICTIONARY FILE UPDATES: 24 MAR 2004 HIGHEST RN 667234-34-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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E2      1      RIBAVARIN/CN
E3      1 --> RIBAVIRIN/CN
E4      1      RIBAVIRIN 2',3',5'-TRIACETATE/CN
E5      1      RIBAVIRIN 5'-DIPHOSPHATE/CN
E6      1      RIBAVIRIN 5'-MONOPHOSPHATE/CN
E7      1      RIBAVIRIN 5'-PHOSPHATE/CN
E8      1      RIBAVIRIN 5'-SULFAMATE/CN
E9      1      RIBAVIRIN 5'-TRIPHOSPHATE/CN
E10     1      RIBAVIRIN DIPHOSPHATE/CN
E11     1      RIBAVIRIN TRIBENZOATE/CN
E12     1      RIBAVIRIN TRIPHOSPHATE/CN
E13     1      RIBAVIRIN TRIPROPIONATE/CN
E14     1      RIBAVIRIN-TRIAMCINOLONE ACETONIDE MIXT./CN
E15     1      RIBAZOL K30/CN
E16     1      RIBAZOL KF 311A/CN
E17     1      RIBB (PASTEURELLA MULTOCIDA STRAIN IL1403 CLONE PM70 GENE
RIBB)/CN
E18     1      RIBBEITE/CN
E19     1      RIBBEITE (MN5(OH)2(SIO4)2)/CN
E20     1      RIBBON (DROSOPHILA MELANOGASTER GENE RIB)/CN
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RIB43A)/CN
E22     1      RIBBON PROTEIN (CHLAMYDOMONAS REINHARDTII STRAIN GR21 GENE
RIB43A)/CN
E23     1      RIBBON-HELIX-HELIX DNA-BINDING PROTEIN ALGZ (PSEUDOMONAS
AERUGINOSA STRAIN FRD1 GENE ALGZ)/CN
E24     1      RIBBOND/CN
E25     1      RIBD (PASTEURELLA MULTOCIDA STRAIN IL1403 CLONE PM70 GENE
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L1      1 RIBAVIRIN/CN
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=> DIS L1 1 SQIDE
THE ESTIMATED COST FOR THIS REQUEST IS 5.92 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y
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L1      ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN      36791-04-5 REGISTRY
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CN 1H-1,2,4-Triazole-3-carboxamide, 1-β-D-ribofuranosyl- (9CI) (CA  
INDEX NAME)

OTHER NAMES:

CN 1-β-D-Ribofuranosyl-1,2,4-triazol-3-carboxamide

CN 1-β-D-Ribofuranosyl-1,2,4-triazole-3-carboxamide

CN ICN 1229

CN NSC 163039

CN Ravanex

CN Rebetol

CN Ribamide

CN Ribamidil

CN Ribavarin

CN **Ribavirin**

CN Tribavirin

CN Vilona

CN Viramid

CN Virazole

FS STEREOSEARCH

DR 66510-90-5, 437710-49-1

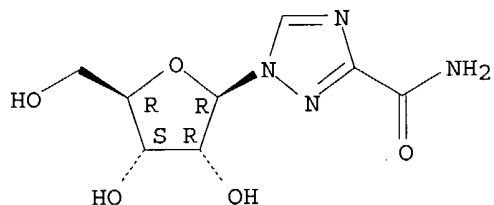
MF C8 H12 N4 O5

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DIOGENES, DRUGU,  
EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IMSDRUGNEWS,  
IMSPATENTS, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR,  
PIRA, PROMT, RTECS\*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)

Other Sources: WHO

Absolute stereochemistry.



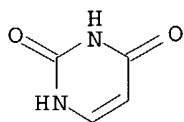
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1837 REFERENCES IN FILE CA (1907 TO DATE)

67 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1844 REFERENCES IN FILE CAPLUS (1907 TO DATE)

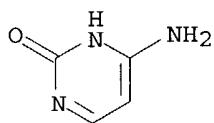
L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 66-22-8 REGISTRY  
 CN 2,4(1H,3H)-Pyrimidinedione (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN **Uracil (8CI)**  
 OTHER NAMES:  
 CN 2,4-Dihydroxypyrimidine  
 CN 2,4-Dioxypyrimidine  
 CN 2,4-Pyrimidinediol  
 CN 2,4-Pyrimidinedione  
 CN Hybar X  
 CN NSC 3970  
 CN Pirod  
 CN Pyrod  
 FS 3D CONCORD  
 DR 766-19-8, 144104-68-7, 4433-21-0, 4433-24-3, 42910-77-0  
 MF C4 H4 N2 O2  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS,  
 BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,  
 CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU,  
 DETHERM\*, DIOGENES, DRUGU, EMBASE, GMELIN\*, HODOC\*, IFICDB, IFIPAT,  
 IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT,  
 RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7850 REFERENCES IN FILE CA (1907 TO DATE)  
 673 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 7864 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 71-30-7 REGISTRY  
 CN 2(1H)-Pyrimidinone, 4-amino- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN **Cytosine (8CI)**  
 OTHER NAMES:  
 CN 4-Amino-2(1H)-pyrimidinone  
 CN 4-Amino-2-hydroxypyrimidine  
 CN 4-Amino-2-oxo-1,2-dihydropyrimidine  
 CN 4-Aminouracil  
 CN Cytosinimine  
 CN NSC 27787  
 FS 3D CONCORD  
 DR 504-05-2, 14987-28-1, 66322-75-6, 26661-23-4, 118511-36-7  
 MF C4 H5 N3 O  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,  
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*,  
 DRUGU, EMBASE, GMELIN\*, HODOC\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,  
 MRCK\*, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE,  
 TOXCENTER, TULSA, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6656 REFERENCES IN FILE CA (1907 TO DATE)  
 518 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 6669 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'REGISTRY' ENTERED AT 11:19:53 ON 25 MAR 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 24 MAR 2004 HIGHEST RN 667234-34-6  
DICTIONARY FILE UPDATES: 24 MAR 2004 HIGHEST RN 667234-34-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> E "URACIL"/CN 25

E1	1	URAC 180/CN
E2	1	URAC 185/CN
E3	1 -->	URACIL/CN
E4	1	URACIL B-D-ARABINOFURANOSIDE/CN
E5	1	URACIL 5,5'-THIOBIS (6-(BENZYLAMINO)-1,3-DIMETHYL-/CN
E6	1	URACIL 5-(BIS(2-iodoethyl)amino)-/CN
E7	1	URACIL 5-ACETYL-3-PHENYL-2-THIO-/CN
E8	1	URACIL 5-BROMO-1-METHYL-, COMPD. WITH 9-ETHYLADENINE (1:1)/CN
E9	1	URACIL 5-ISOTHIOCYANATE/CN
E10	1	URACIL 6-AMINO-5-CHLORO-1,3-DIMETHYL-/CN
E11	1	URACIL 6-METHYL SULFONE/CN
E12	1	URACIL 634/CN
E13	1	URACIL ACRYLATE SYNTHASE/CN
E14	1	URACIL ACRYLIC ACID/CN
E15	1	URACIL ACRYLIC ACID SYNTHASE/CN
E16	1	URACIL ALLOSID/CN
E17	1	URACIL ARABINONUCLEOSIDE 5'-PHOSPHATE/CN
E18	1	URACIL ARABINOSIDE/CN
E19	1	URACIL ARABINOSIDE HYDROCHLORIDE/CN
E20	1	URACIL ARABINOSIDE TRIPHOSPHATE/CN
E21	1	URACIL BIS(TRIMETHYLSILYL) ETHER/CN
E22	1	URACIL CONJUGATE MONOACID/CN
E23	1	URACIL DEHYDROGENASE/CN
E24	1	URACIL DEOXYRIBOSIDE/CN
E25	1	URACIL DIHYDRATE/CN

=> S E3

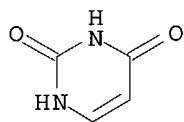
L1 1 URACIL/CN

=> DIS L1 1 SQIDE

THE ESTIMATED COST FOR THIS REQUEST IS 5.92 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 66-22-8 REGISTRY  
CN 2,4(1H,3H)-Pyrimidinedione (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN **Uracil (8CI)**  
OTHER NAMES:

CN 2,4-Dihydroxypyrimidine  
 CN 2,4-Dioxypyrimidine  
 CN 2,4-Pyrimidinediol  
 CN 2,4-Pyrimidinedione  
 CN Hybar X  
 CN NSC 3970  
 CN Pirod  
 CN Pyrod  
 FS 3D CONCORD  
 DR 766-19-8, 144104-68-7, 4433-21-0, 4433-24-3, 42910-77-0  
 MF C4 H4 N2 O2  
 CI COM  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS,  
 BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,  
 CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSChem, CSNB, DDFU,  
 DETHERM\*, DIOGENES, DRUGU, EMBASE, GMELIN\*, HODOC\*, IFICDB, IFIPAT,  
 IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT,  
 RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7850 REFERENCES IN FILE CA (1907 TO DATE)  
 673 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 7864 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> E "URACIL"/CN 25

E1	1	URAC 180/CN
E2	1	URAC 185/CN
E3	1 -->	URACIL/CN
E4	1	URACIL B-D-ARABINOFURANOSIDE/CN
E5	1	URACIL 5,5'-THIOBIS(6-(BENZYLAMINO)-1,3-DIMETHYL-/CN
E6	1	URACIL 5-(BIS(2-iodoethyl)amino)-/CN
E7	1	URACIL 5-ACETYL-3-PHENYL-2-THIO-/CN
E8	1	URACIL 5-BROMO-1-METHYL-, COMPD. WITH 9-ETHYLADENINE (1:1)/CN
E9	1	URACIL 5-ISOTHIOCYANATE/CN
E10	1	URACIL 6-AMINO-5-CHLORO-1,3-DIMETHYL-/CN
E11	1	URACIL 6-METHYL SULFONE/CN
E12	1	URACIL 634/CN
E13	1	URACIL ACRYLATE SYNTHASE/CN
E14	1	URACIL ACRYLIC ACID/CN
E15	1	URACIL ACRYLIC ACID SYNTHASE/CN
E16	1	URACIL ALLOSIDE/CN
E17	1	URACIL ARABINONUCLEOSIDE 5'-PHOSPHATE/CN
E18	1	URACIL ARABINOSIDE/CN
E19	1	URACIL ARABINOSIDE HYDROCHLORIDE/CN
E20	1	URACIL ARABINOSIDE TRIPHOSPHATE/CN
E21	1	URACIL BIS(TRIMETHYLSILYL) ETHER/CN
E22	1	URACIL CONJUGATE MONOACID/CN

E23	1	URACIL DEHYDROGENASE/CN
E24	1	URACIL DEOXYRIBOSIDE/CN
E25	1	URACIL DIHYDRATE/CN

=> E "CYTODINE"/CN 25

E1	1	CYTODEX 2/CN
E2	1	CYTODEX 3/CN
E3	0 -->	CYTODINE/CN
E4	1	CYTOFE/CN
E5	1	CYTOFECTENE/CN
E6	1	CYTOFECTIN/CN
E7	1	CYTOFLAV/CN
E8	1	CYTOFLAV DIHYDRATE/CN
E9	1	CYTOFLAVIN/CN
E10	1	CYTOFOL/CN
E11	1	CYTOGAM/CN
E12	1	CYTOGEN/CN
E13	1	CYTOGENIN/CN
E14	1	CYTOGRAN/CN
E15	1	CYTOGRO/CN
E16	1	CYTOHEME/CN
E17	1	CYTOHEMIN/CN
E18	1	CYTOHESIN (MOUSE R1-ES CELL GENE CLM1 TYPE 1 ISOFORM A)/CN
E19	1	CYTOHESIN (MOUSE R1-ES CELL GENE CLM2 TYPE 2 ISOFORM A)/CN
E20	1	CYTOHESIN (MOUSE R1-ES CELL GENE CLM2 TYPE 2 ISOFORM B)/CN
E21	1	CYTOHESIN (MOUSE R1-ES CELL GENE CLM3 TYPE 3 ISOFORM A)/CN
E22	1	CYTOHESIN 1 (HUMAN CLONE B2-1 PH DOMAIN)/CN
E23	1	CYTOHESIN 1 (HUMAN CLONE B2-1 REDUCED)/CN
E24	1	CYTOHESIN 1 (HUMAN CLONE PPHCY1 140-AMINO ACID FRAGMENT)/CN
E25	1	CYTOHESIN 2 (HUMAN CLONE PJG4-5CTS18.1 PH DOMAIN)/CN

=> E "CYTOSINE"/CN 25

E1	1	CYTOSCINT ES/CN
E2	1	CYTOSEP/CN
E3	1 -->	CYTOSINE/CN
E4	1	CYTOSINE (N), N,1-DIMETHYL-, MONOHYDROCHLORIDE/CN
E5	1	CYTOSINE B-D-ARABINOFURANOSIDE/CN
E6	1	CYTOSINE B-D-ARABINOFURANOSIDE-5'-TRIPHOSPHATE/CN
E7	1	CYTOSINE B-D-ARABINOSIDE/CN
E8	1	CYTOSINE B-D-ARABINOSIDE 5'-MONOPHOSPHATE/CN
E9	1	CYTOSINE 5-METHYLTRANSFERASE/CN
E10	1	CYTOSINE 5-METHYLTRANSFERASE (MOUSE MEL CELL GENE DNMT1 ISOENZYME DNMT1-B FRAGMENT)/CN
E11	1	CYTOSINE ARABINOSIDE/CN
E12	1	CYTOSINE ARABINOSIDE 3-N-OXIDE/CN
E13	1	CYTOSINE ARABINOSIDE 5'-O-(METHYL PHOSPHATE)/CN
E14	1	CYTOSINE ARABINOSIDE 5'-O-(PHENYL PHOSPHATE)/CN
E15	1	CYTOSINE ARABINOSIDE 5'-PHOSPHATE/CN
E16	1	CYTOSINE ARABINOSIDE 5'-TRIPHOSPHATE/CN
E17	1	CYTOSINE ARABINOSIDE HYDROCHLORIDE/CN
E18	1	CYTOSINE ARABINOSIDE METHYLPHOSPHONATE/CN
E19	1	CYTOSINE ARABINOSIDE MONOPHOSPHATE/CN
E20	1	CYTOSINE ARABINOSIDE PALMITATE/CN
E21	1	CYTOSINE ARABINOSIDE TRIACETATE/CN
E22	1	CYTOSINE ARABINOSIDE TRIPHOSPHATE/CN
E23	1	CYTOSINE COMPOUND WITH
		2,4,6-TRIAMINO-N,N-DIETHYL-1,3,5-TRIAZINE/CN
E24	1	CYTOSINE CONJUGATE ACID/CN
E25	1	CYTOSINE DEAMINASE/CN

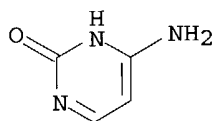
=> S E3

L2	1	CYTOSINE/CN
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=> DIS L2 1 SQIDE

THE ESTIMATED COST FOR THIS REQUEST IS 5.92 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 71-30-7 REGISTRY  
CN 2(1H)-Pyrimidinone, 4-amino- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN **Cytosine (8CI)**  
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CN 4-Amino-2-hydroxypyrimidine  
CN 4-Amino-2-oxo-1,2-dihydropyrimidine  
CN 4-Aminouracil  
CN Cytosinimine  
CN NSC 27787  
FS 3D CONCORD  
DR 504-05-2, 14987-28-1, 66322-75-6, 26661-23-4, 118511-36-7  
MF C4 H5 N3 O  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,  
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM\*,  
DRUGU, EMBASE, GMELIN\*, HODOC\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,  
MRCK\*, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE,  
TOXCENTER, TULSA, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6656 REFERENCES IN FILE CA (1907 TO DATE)  
518 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
6669 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)